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16. *Elassoma* sp. Abundant, and varying greatly as to color. Twenty-eight examples, 18 to 31 mm. long, including some adult females with hard roe.

The sexual differences appear to be marked. Specific determination is not attempted here, but it is hoped that a large number of adults will be brought alive to Washington for further study.

17. *Pomoxis sparoides* (Lacepede). Common. One small example taken.

18. *Centrarchus macropterus* (Lacepede). Common. One small example taken.

19. *Chaenobryttus gulosus* (Cuv. & Val.). Abundant, and extremely dark in coloration. Three examples, 200, 230 and 240 mm. taken with hook and line.

20. *Enneacanthus gloriosus* (Holbrook). Abundant. Seven examples 22 to 78 mm. long.

21. *Mesogonistius chaetodon* (Baird). Common. One example 57 mm. long.

22. *Lepomis auritus* (Linnaeus). Abundant, and of large size. Coloration very dark. One example 270 mm. long.

23. *Micropterus salmoides* (Lacepede). Abundant. One example 61 mm. long.

24. *Perca flavescens* (Mitchill). Common, and of very brilliant color. One example seen in gill net.

25. *Boleichthys fusiformis* (Girard). Abundant. Two examples 43 and 45 mm.

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LONG ISLAND TURTLES.

The following notes are published as a basis for the extension of season, range, number of species and knowledge of life history, of the Chelonia of Long Island. Information regarding the status of

several species is very incomplete, and it is hoped that additional data may soon be recorded. The only previous list referring to the turtles of the island is that of Mr. G. P. Engelhardt in *The Museum News*, Brooklyn, Vol. VIII, 1913, p. 128. Mr. Engelhardt includes in his list the wood tortoise (*Chelopus insculptus*), but he has since informed me that subsequent investigation has not confirmed the validity of a supposed record for this species.

1. *Dermochelys coriacea* (Vandelli). Leatherback turtle. Of occasional occurrence along our coast. Large specimens have been taken several times on New Jersey beaches, once at New London, Conn., twice or more in Buzzards Bay, Mass., and at least once on the coast of Nova Scotia.

Dr. Frank Overton writes me that a "1,000-pound leatherback was caught in a sturgeon net off Patchogue about twenty years ago."

2. *Caretta caretta* (L.). Loggerhead turtle. This species has an observed range in the Atlantic extending from the coast of Scotland to 37° south latitude. It is a regular summer visitor to Long Island, frequently entering inlets from the Sound. In July, 1905, Mr. Gustavus Tooker captured a sixty-five pound specimen in Mt. Sinai Harbor by spearing it in the back with an eel-spear. In July, 1910, I bought an example weighing over 70 pounds in Fulton Market. It had been captured near New York.

Others, including one weighing 400 pounds, have been taken within New York Bay. During late November I once found five small loggerheads, of about twenty pounds weight, on the South beach at Mt. Sinai. They had probably been killed by the cold and had been thrown up along the tide line. Two small specimens in the Brooklyn Museum were taken at Lynbrook by Mr. Jacob Doll.

Mr. Roy Latham, of Orient, has records for this species from June 14, 1907, to December 4, 1915.

He states that examples are caught sparingly in fish traps in the Sound and Gardiner's Bay, and even in the smaller, shallow bays. One specimen examined by him weighed 125 pounds.

3. *Eretmochelys imbricata* (L.). Hawksbill turtle. This species is recorded by Sumner, Osburn and Cole,¹ as being more common than the loggerhead in Buzzards Bay, Mass. Mr. V. N. Edwards, of Woods Hole, reports having seen examples in the Long Island Sound as late as Thanksgiving Day. They were taken then exhausted by cold.

4. *Chelonia mydas* (L.). Green turtle. The green turtle has been several times recorded from the coast of New Jersey, and also from Rhode Island. Mr. Latham took one which weighed thirty pounds in the Sound off Orient, on September 30, 1914. In Fulton Market the writer once saw a live one weighing eighteen pounds, which was said to have been caught off the south coast of Long Island.

5. *Chelydra serpentina* (L.). Snapping turtle. Generally distributed and locally common. At Orient, where it was formerly very abundant, it is in evidence from April to October. The largest specimen seen by Mr. Latham weighed 30 pounds. Mr. Latham has found the eggs in June, buried in the sand of a hillside about 200 feet from a pond. Mr. W. T. Davis has seen both the turtles and their eggs in the vicinity of Tobacco Lot Pond, Gardiner's Island, in June. At Mastic and elsewhere, I have frequently found deposits of eggs which had apparently been dug up by foxes or racoons.

The name by which the snappers are known along the south shore is "torup." At Mastic, according to Mr. Francis Harper, at least one fisherman used to capture them to sell to the Poospatuck Indians, who prize the flesh. On June 13, 1915, Mr. Harper and Mr. J. T. Nichols found a large carapace of a freshly-eaten torup in a rubbish heap near one of the Poospatuck cabins.

¹Bull. Bur. Fisheries, XXXI, 1911, Pt. 2, p. 774.

6. *Kinosternon pennsylvanicum* (Gmelin). Mud turtle. "General in streams and ponds, and still common in such environments within the city limits of Brooklyn," (Engelhardt). Mr. Engelhardt has taken this species at Casino Lake, Flushing, and in Prospect Park, Brooklyn. Mr. Nichols has found examples on the inner beach at Mastic. Dr. Overton took one in the salt marshes at East Patchogue, on September 9, 1913.

7. *Aromochelys odoratus* (Latreille). Musk turtle. Shells of four musk turtles were found near the water's edge of Long Pond, Wading River, by W. T. Davis, on August 8, 1912. Mr. Davis still has one of the carapaces.

8. *Malaclemmys centrata concentrica* (Shaw). Diamond-back terrapin. Formerly common in the bays of Long Island, as elsewhere along the Atlantic coast, but now rather rare because it has been hunted so persistently for the market. I have taken examples in Mt. Sinai Harbor, and I remember seeing, along the tidal creeks of this bay, pens of chicken-wire containing scores of diamond-backs being held for the visit of the wholesale dealer. Mr. Nichols reports a similar pen at Brookhaven, where several hundred of the terrapin were recently confined. A fisherman of Mt. Sinai, who deals in these turtles, once found a large example on the pine barrens three or four miles south of the harbor.

At Orient, Mr. Latham has taken this species in fishing fikes, from April to November.

9. *Chrysemys picta* (Hermann). Painted turtle. Very plentiful in streams and ponds. March 14, 1915, (Hempstead), to October 31, 1915, (Mastic).

10. *Clemmys guttatus* (Schneider). Spotted turtle. Abundant in ponds and streams, and active from March until November.

11. *Emydoidea blandingi* (Holbrook). Blanding's turtle. Known on Long Island from a single

specimen found by Mr. John J. Schoonhoven at Queens, in June, 1909, and recorded in "Science," N. S., XXXIV, 1911, p. 917.

12. *Terrapene carolina* (L.). Box tortoise. Abundant throughout the island. April 2 to November 10 (Orient). Mr. Latham has found the eggs in cultivated fields during June and July.

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